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fiber optic communication systems have advanced dramatically over the last four decades since the era of copper cables resulting in low cost and high bandwidth transmission fiber optics is now the backbone of the internet and long distance telecommunication without it we would not enjoy the benefits of high speed internet or low rate international telephone calls this book introduces the basic concepts of fiber optic communication in a pedagogical way the important mathematical results are derived by first principles rather than citing research articles in addition physical interpretations and real world analogies are provided to help students grasp the fundamental concepts key features lucid explanation of key topics such as fibers lasers and photodetectors includes recent developments such as coherent communication and digital signal processing comprehensive treatment of fiber nonlinear transmission worked examples exercises and answers accompanying website with powerpoint slides and numerical

experiments in matlab intended primarily for senior undergraduates and graduates studying fiber optic communications the book is also suitable as a professional resource for researchers working in the field of fiber optic communications

the third edition of this popular text and reference book presents the fundamental principles for understanding and applying optical fiber technology to sophisticated modern telecommunication systems optical fiber based telecommunication networks have become a major information transmission system with high capacity links encircling the globe in both terrestrial and undersea installations numerous passive and active optical devices within these links perform complex transmission and networking functions in the optical domain such as signal amplification restoration routing and switching along with the need to understand the functions of these devices comes the necessity to measure both component and network performance and to model and stimulate the complex behavior of reliable high capacity networks

describes the mechanisms of major components such as fibers cables emission sources detectors modulators repeaters system network designs includes a section on industrial automation process control systems

a practical applied introduction to fibre optics which adopts a non mathematical approach and is geared specifically to the technician level student it considers fibre optics components and applications and the theoretical foundation required for more advanced courses

this edition contains new material describing new developments in the field of optical fiber data communications it covers the transformation of the modern data communications network both within the data center and over extended distances between data centers along with best practices for the design of highly virtualized converged energy efficient secure and flattened network infrastructures

introductory book for undergraduate electrical engineering and electronics technology courses covering fiber optics this new and revised fifth edition of fiber optic communications incorporates coverage of significant advances made in the fiber industry in recent years to present a comprehensive and in depth introduction to the basics of communicating using optical fiber transmission lines students will learn system design as well as operating principles characteristics and application of the components that comprise fiber optic systems

low loss optical fibres have revolutionized the field of telecommunications this book introduces the physical principles of optical fibres and describes their use in sensor technology and modern optical communication systems

market desc although written primarily for graduate students the book can also be used for an undergraduate course at the senior level with an appropriate selection of topics the potential readership is likely to consist of senior undergraduate students graduate students enrolled in the m s and ph d degree programs engineers and technicians involved with the telecommunications industry and scientists working in the fields of fiber optics and optical communications special features the third edition of a proven best seller the book is accompanied by a solutions manual a comprehensive up to

date account of fiber optic communication systems book is accompanied by cd rom providing applications based on text about the book this book is intended to fulfill the requirements of a graduate level textbook in the field of optical communications an attempt is made to include as much recent material as possible so that students are exposed to the recent advances in this exciting field the book can also serve as a reference text for researchers already engaged in or wishing to enter the field of optical fiber communications the reference list at the end of each chapter is more elaborate than what is common for a typical textbook the listing of recent research papers should be useful for researchers using this book as a reference at the same time students can benefit from it if they are assigned problems requiring reading of original research papers a set of problems is included at the end of each chapter to help both teacher and student

this book discusses in detail fiber optic communications systems it describes major components including fibers cables emission sources detectors modulators and repeaters as well as total system designs

this is the second edition of this highly successful book giving an introduction to the fundamentals problems and techniques of design and utilisation of optical fibre systems all the chapters have been updated and many have been extended with extra sections including the most recent developments in addition three new chapters have been incorporated

this engineering tool provides over 200 time and cost saving rules of thumb short cuts tricks and methods that optical communications veterans have developed through long years of trial and error dwdm dense wavelength division multiplexing and sonet synchronous optical network rules information transmission fiber optics and systems rules

introduction to fiber optic communications provides students with the most up to date comprehensive coverage of modern optical fiber communications and applications striking a fine balance between theory and practice that avoids excessive mathematics and derivations unlike other textbooks currently available this book covers all of the important recent technologies and developments in the field including electro optic modulators coherent optical systems and silicon integrated photonic circuits filled with practical relevant worked examples and exercise problems the book presents complete coverage of the topics that optical and communications engineering students need to be successful from principles of optical and optoelectronic components to optical transmission system design and from conventional optical fiber links to more useful optical communication systems with advanced modulation formats and high speed dsp this book covers the necessities on the topic even including today s important application areas of passive optical networks datacenters and optical interconnections covers fiber optic communication system fundamentals design rules and terminologies provides students with an understanding of the physical principles and characteristics of passive and active fiber optic components teaches students how to perform fiber optic system design performance evaluation and troubleshooting includes modern advances in modulation and decoding strategies

this book is intended to provide a step by step guide to all design aspects and tradeoffs from theory to application for fiber optics transceiver electronics presenting a compendium of information in a structured way this book enables the engineer to develop a methodical design approach a deep understanding of specifications parameters and the reasons behind them as well as their effects and consequences on system performance which are essential for proper component design further a fundamental understanding of rf digital circuit design and linear and nonlinear phenomena is important in order to achieve the desired performance levels becoming familiar with solid state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations

the book now in its third edition is thoroughly revised and updated as per the new syllabi of optical fiber communication of various universities the material is well presented and designed for undergraduate and postgraduate students pursuing courses in electrical engineering and electronics and telecommunication engineering the book offers a completely accessible and in depth knowledge of the principles and applications of optical fiber communication ofc it deals with materials devices components and systems of ofc the coverage includes key concepts such as properties of light evolution and elements of ofc its benefits along with applications in optical lan and communication links the attenuation loss of different types dispersion mechanism photon sources led and lasers detectors pin and avalanche analog and digital transmitter and receiver systems connectorization oadm and amplifiers are described built up of long haul ofc links at 8 mb s and 2 5 gb s and optical interface are explained with illustrations it also contains solved numerical problems for better understanding of topics key features includes optical fiber lan for data centres and industries provides detail treatment of led semiconductor lasers tx and rx discusses all optical communications links and optical networks includes important questions with answers provides practice papers and model test papers

the advantages of optical communications are many ultra high speed highly reliable information transmission and cost effective modulation and transmission links to name but a few it is no surprise that optical fiber communications systems are now in extensive use all over the world along with software and microelectronics optical communication represents a key technology of modern telecommunication systems optical communications components and systems provides the basic material required for advanced study in theory and applications of optical fiber and space communication systems after a review of some fundamental background material component based chapters discuss all relevant passive and active optical and optoelectronic components used in point to point links and in networks systems chapters address the analysis and optimization of both incoherent and coherent systems introduce fiber optic link design and discuss physical limits the authors also provide an overview of applications such as optical networks and optical free space communications the advanced interactive multimedia communications of today and the future rely on optical fiber and space communication techniques optical communications components and systems offers engineers and physicists a working reference for the selection and design of optical communication systems and provides engineering students with a valuable text that prepares them for work in this essential and rapidly growing field

this book deals with optical electronics and communication and is intended as a core textbook for use both at the undergraduate and postgraduate

levels in engineering colleges

experts in the field present the theoretical and practical knowledge necessary for understanding and designing fiber optic communication systems this book bridges the gap between classical communication practice and the new techniques required to design fiber optic communication systems engineering rules for designing systems are also given and supported by theoretical treatments topics include

the integration of data video and voice types of communication services with a factor called bandwidth brought optical communications towards an emerging technology

discover the latest developments in fiber optic communications with the newest edition of this leading textbook in the newly revised fifth edition of fiber optic communication systems accomplished researcher and author dr govind p agrawal delivers brand new updates and developments in the science of fiber optics communications the book contains substantial additions covering the topics of coherence detection space division multiplexing and more advanced subjects you ll learn about topics like fiber s losses dispersion and nonlinearities as well as coherent lightwave systems the latter subject has undergone major changes due to the extensive development of digital coherent systems over the last decade space division multiplexing is covered as well including multimode and multicore fibers developed in just the last ten years finally the book concludes with a chapter on brand new developments in the field that are still at the development stage and likely to become highly relevant for practitioners and researchers in the coming years readers will also benefit from the inclusion of a thorough introduction to the fundamentals of fiber optic communication systems an exploration of the management of fiber optic communication losses dispersion and nonlinearities a practical discussion of coherent lightwave systems including coherent transmitters and receivers as well as noise and bit error rate sensitivity degradation mechanisms and the impact of nonlinear effects a concise treatment of space division multiplexing including multicore and multimode fibers multicore lightwave systems and multimode lightwave systems analyses of advanced topics including pulse shaping for higher spectral efficiency kramers kronig receivers nonlinear fourier transform wavelength conversion and optical regeneration perfect for graduate students professors scientists and professional engineers working or studying in the area of telecommunications technology fiber optic communication systems is an essential update to the leading reference in the area of fiber optic communications

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